

CLAIMS

1. A server device which outputs a result of computation processing to an output device, comprising:

a communication unit configured to receive a connection request from an input device;

an output device manager configured to store an identifier of the output device; and

an connection controller

configured to acquire output capability information of the output device, the output capability information indicating which kind of output the output device can do,

configured to acquire input capability information of the input device, the input capability information indicating which kind of input the input device can do,

configured to generate secret information which can be input to the input device and can be output by the output device, on the basis of the input capability information and the output capability information,

configured to transmit the secret information to the output device, and

configured to generate a result of computation processing based on input information received from the input device for transmitting to the output device indicated by the identifier stored in the output device manager in a case of receiving the secret information from the input device.

2. The server device according to claim 1, wherein

the output device is a display apparatus,

the input device is a mouse, and

the connection controller generates operation information of the mouse as the secret information.

3. The server device according to claim 2, wherein the operation information includes operation of a button equipped with the mouse and moving-operation of the mouse.

4. The server device according to claim 3, wherein the connection controller selects the button operation and the mouse moving-operation among a plurality of button operations and a plurality of mouse moving-operations.
5. The server device according to claim 1, wherein the output device is a display apparatus, the input device is an optical mouse, and the connection controller generates image information which can be read by the optical mouse, as the secret information.
6. The server device according to claim 5, wherein the connection controller generates image information which changes with time, as the secret information.
7. The server device according to claim 1, wherein the output device is a display apparatus, the input device is a keyboard, and the connection controller generates a character string which can be input by the keyboard, as the secret information.
8. The server device according to claim 1, wherein the output device is a speaker, the input device is a microphone, and the connection controller generates voice information which can be input from the microphone, as the secret information.
9. The server device according to claim 1, wherein the output device is a display apparatus, the input device is a camera, and the connection controller generates image information which can be taken by the camera, as the secret information.

10. The server device according to claim 1, wherein there are a plurality of output devices, and the connection controller generates different secret information pieces respectively for the output devices .

11. The server device according to claim 1, wherein the output device manager stores a first user identifier so as to associate with the identifier of the output device, the communication unit receives an second user identifier, and the connection controller acquires the output capability information of the output device in a case that the first user identifier coincides with the second user identifier.

12. A server device which generates a result of computation processing based on input information from an input device, comprising:

a communication unit configured to receive a connection request from an output device;

an input device manager configured to store an identifier of the input device ; and

an connection controller configured to acquire input capability information of the input device, the input capability information indicating which kind of input the input device can do, configured to acquire output capability information of the output device, the output capability information indicating which kind of output the output device can do, configured to generate secret information which can be input to the input device and can be output by the output device, on the basis of the input capability information and the output capability information, configured to transmit the secret information to the output device, and configured to output a result of computation processing based on input information received from the input device indicated by

the identifier stored in the input device manager for transmitting to the output device in a case of receiving the secret information from the input device.

13. The server device according to claim 12, wherein
the input device is a mouse,
the output device is a display apparatus, and
the connection controller generates operation information
of the mouse as the secret information.

14. The server device according to claim 12, wherein
the input device is an optical mouse
the output device is a display apparatus, and
the connection controller generates image information
which can be read by the optical mouse, as the secret
information.

15. The server device according to claim 14, wherein
the connection controller generates image information
which changes with time, as the secret information.

16. The server device according to claim 12, wherein
the input device is a keyboard
the output device is a display apparatus, and
the connection controller generates a character string
which can be input by the keyboard, as the secret information.

17. The server device according to claim 12, wherein
the input device is a microphone
the output device is a speaker, and
the connection controller generates voice information
which can be input from the microphone, as the secret
information.

18. The server device according to claim 12, wherein
the input device is a camera

the output device is a display apparatus, and
the connection controller generates image information
which can be taken by the camera, as the secret information.

19. The server device according to claim 12, wherein
the input device manager stores a first user identifier so
as to associate with the identifier of the input device,
the communication unit receives an second user identifier,
and
the connection controller acquires the input capability
information of the input device in a case that the first user
identifier coincides with the second user identifier.

20. A program executed in a server device which receives
input information from an input device via a network, and
outputs a result of computation processing based on the input
information to an output device on the network, comprising:

- a program module for receiving a connection request
from the input device;

- a program module for acquiring output capability
information of the output device, the output capability
information indicating which kind of output the output device
can do;

- a program module for acquiring input capability
information of the input device, the input capability information
indicating which kind of input the input device can do;

- a program module for generating secret information
which can be input to the input device and output by the output
device, on the basis of the output capability information and the
input capability information;

- a program module for transmitting the secret information
to the output device; and

- a program module for generating a result of computation
processing based on input information received from the input
device for transmitting to the output device in a case of
receiving the secret information from the input device.